

LM-79

Test Report

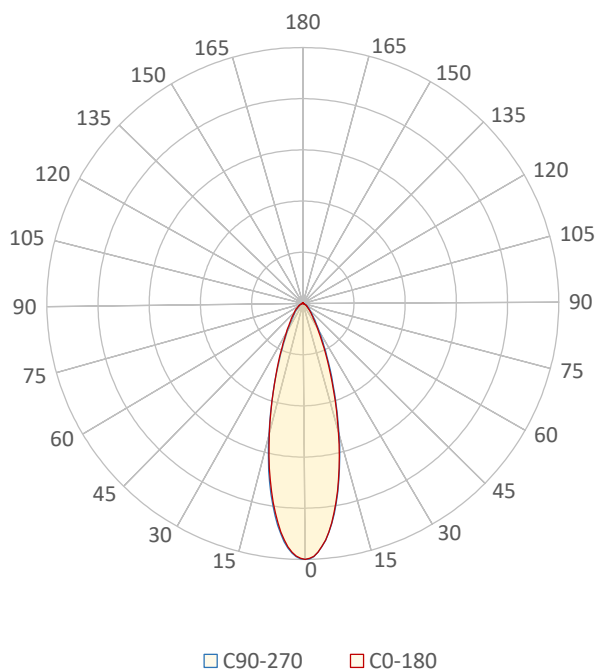
LM79-MARTINA-RGBW-WIDE

General Discription

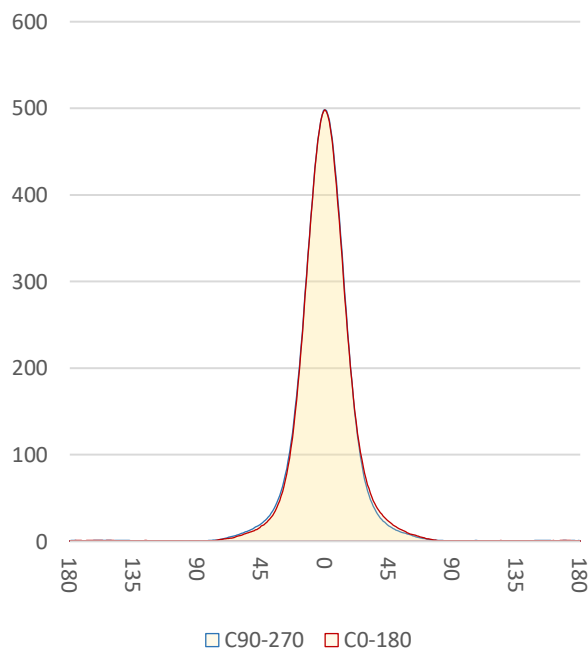
Item number	
Date and time	3-11-2017 13:40:38
CCT (Kelvin)	0 K
Beam angle	31,2°
Luminous flux	223 lm
Efficiency	20 lm/watt
Weighted energy	11,2 kWh/1000h
Power factor	0,59
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	499 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	498 lx	125 lx	55 lx	31 lx	20 lx

31,2°

*measured at center of beam

Footcandles*	46,3 fcd	11,6 fcd	5,1 fcd	2,9 fcd	1,9 fcd
Beam width (meter)	0,6 m	1,1 m	1,7 m	2,2 m	2,8 m
Beam width (Feet)	1,8 ft	3,7 ft	5,5 ft	7,3 ft	9,2 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
498lx	125lx	55lx	31lx	20lx	14lx	10lx	8lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx
3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	19,7ft	23ft	26,2ft	29,5ft	32,8ft	36,1ft	39,4ft	42,7ft	45,9ft	49,2ft	52,5ft	55,8ft	59,1ft	62,3ft	65,6ft
46,3fcd	11,6fcd	5,1fcd	2,9fcd	1,9fcd	1,3fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd

Intensities in 0° c-plane																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
498	493	475	448	412	372	328	283	239	199	163	133	107	86	70	57	47	39	32	28
100%	99%	95%	90%	83%	75%	66%	57%	48%	40%	33%	27%	22%	17%	14%	11%	9%	8%	7%	6%

Intensities in 90° c-plane																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
498	493	475	449	414	374	330	287	243	204	169	139	114	93	76	63	53	44	38	33
100%	99%	95%	90%	83%	75%	66%	58%	49%	41%	34%	28%	23%	19%	15%	13%	11%	9%	8%	7%

Intensities in 180° c-plane																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
498	492	475	447	411	371	327	282	239	200	166	137	113	94	79	66	56	47	41	36
100%	99%	95%	90%	83%	74%	66%	57%	48%	40%	33%	28%	23%	19%	16%	13%	11%	9%	8%	7%

Intensities in 270° c-plane																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
498	493	477	451	417	376	333	287	243	202	165	134	109	88	71	59	49	41	34	29
100%	99%	96%	90%	84%	75%	67%	58%	49%	40%	33%	27%	22%	18%	14%	12%	10%	8%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,2°	64,5°	104,5°	94,4%	87,0%



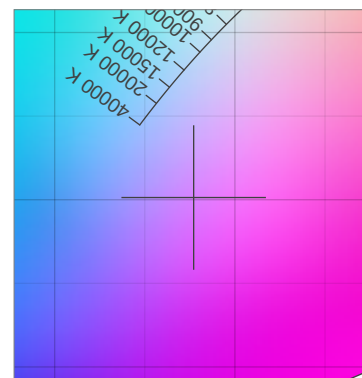
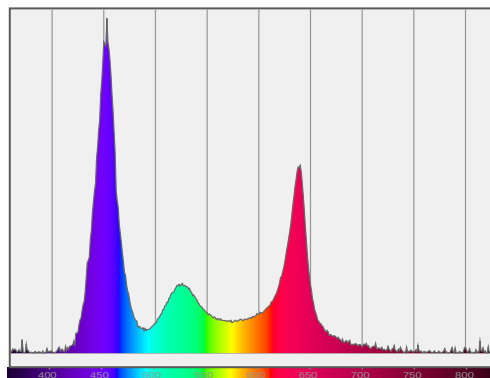
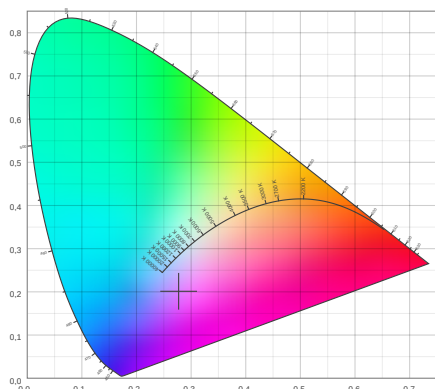
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Test Report

LM79-MARTINA-RGBW-WIDE

Color details



<i>CIE 1931</i>	x: 0,277		Spectra	<i>CIE 1931 ZOOM</i>
0 K	y: 0,201			Δuv : n/a

CRI: 0,0 (R1-R8)															CRI values, R1-R8 are used to calculate final CRI value							
															R1	R2	R3	R4	R5	R6	R7	R8
															0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
															R9	R10	R11	R12	R13	R14	R15	
															0,0	0,0	0,0	0,0	0,0	0,0	0,0	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15								

CQS: 0,0																	CQS values							
																	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
																	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
																	Q9	Q10	Q11	Q12	Q13	Q14	Q15	
																	0,0	0,0	0,0	0,0	0,0	0,0	0,0	
																	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8

TM30: 0,0	TM30 values, 16 binned values out of total of 99 values							
	C1	C2	C3	C4	C5	C6	C7	C8
	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	C9	C10	C11	C12	C13	C14	C15	
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16	0,0	0,0	0,0	0,0	0,0	0,0	0,0	

Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0,0	0,0	0,0	0,0	0,0	0,277	0,201	0,228	0,248	n/a



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TM30 details

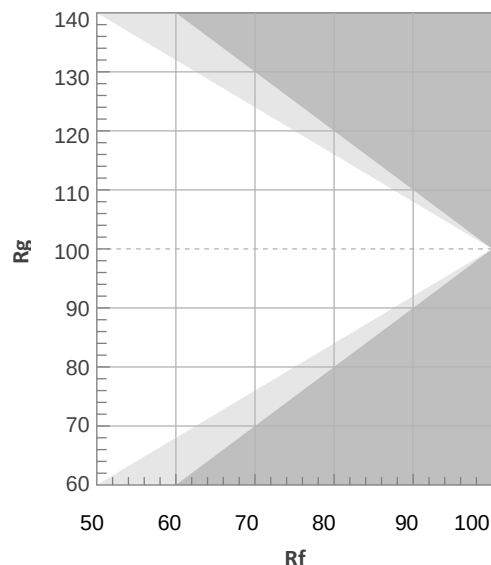
Rf 0,0

Fidelity index Rf

Rg 0,0

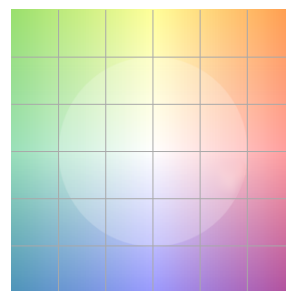
Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



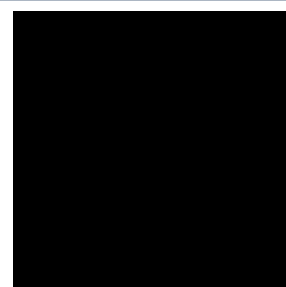
Hue binH

Color vector graphics

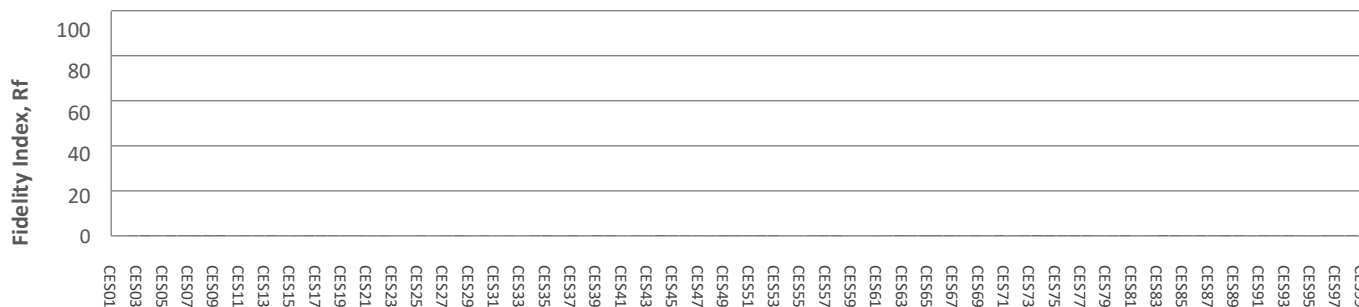


Hue bin

Color distortion graphics



Color Evaluation Sample



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Glare Evaluation According to UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17,7	18,5	18,0	18,7	18,9	18,8	19,5	19,0	19,8	20,0
	3H	18,1	18,8	18,4	19,1	19,4	19,3	20,0	19,6	20,3	20,6
	4H	18,2	18,9	18,6	19,2	19,5	19,4	20,1	19,8	20,4	20,7
	6H	18,2	18,9	18,6	19,2	19,5	19,5	20,1	19,8	20,4	20,7
	8H	18,2	18,8	18,6	19,2	19,5	19,5	20,1	19,9	20,4	20,8
	12H	18,2	18,8	18,6	19,2	19,5	19,5	20,1	19,9	20,4	20,8
4H	2H	17,9	18,6	18,3	18,9	19,2	19,0	19,7	19,3	20,0	20,3
	3H	18,5	19,1	18,9	19,4	19,8	19,7	20,2	20,1	20,6	20,9
	4H	18,7	19,2	19,1	19,6	20,0	19,8	20,3	20,3	20,7	21,1
	6H	18,8	19,2	19,2	19,6	20,0	19,9	20,4	20,4	20,8	21,2
	8H	18,8	19,1	19,2	19,6	20,0	20,0	20,4	20,5	20,8	21,2
	12H	18,8	19,1	19,3	19,6	20,0	20,1	20,4	20,5	20,8	21,3
8H	4H	18,7	19,1	19,2	19,5	20,0	19,9	20,2	20,3	20,7	21,1
	6H	18,8	19,1	19,3	19,6	20,1	20,0	20,3	20,5	20,8	21,2
	8H	18,9	19,1	19,4	19,6	20,1	20,1	20,3	20,6	20,8	21,3
	12H	18,9	19,2	19,5	19,7	20,2	20,2	20,4	20,7	20,9	21,4
12H	4H	18,7	19,0	19,2	19,5	20,0	19,8	20,2	20,3	20,6	21,1
	6H	18,8	19,1	19,3	19,5	20,1	20,0	20,2	20,5	20,7	21,2
	8H	18,9	19,1	19,4	19,6	20,1	20,1	20,3	20,6	20,8	21,3
Variation of the observer position for the luminaire distance S											
S = 1,0H		+1,0 / -0,9					+0,8 / -0,8				
S = 1,5H		+2,0 / -1,6					+1,8 / -1,5				
S = 2,0H		+3,5 / -2,9					+3,1 / -2,1				
Standard table		BK02					BK02				
Correction summand		1,0					2,1				
Corrected glare indices referring to 223lm total luminous flux											

